WHAT IS CLAIMED IS:

3

: 11**[**]

13

14

15

16

17

An assembly for supporting a mask frame to a stud of a panel in a cathode ray tube having a longitudinal tube axis, comprising:

said mask frame having a rectangular rim disposed in parallel with said tube axis, having a flange vertically extending from a rear end of said rectangular rim toward said tube axis and perpendicular to said tube axis;

a shadow mask having a skirt fixed on an inside surface of a front end of said rectangular rim, having a first plane perpendicular to said tube axis and passing a central surface of said shadow mask;

a bracket having a suspending arm joined by a connecting arm to a fixing arm, said suspending arm and said fixing arm spaced apart from each other and disposed in parallel with said tube axis;

said suspending arm being provided with a hole coupled to said stud;

said fixing arm fixed on an outside surface of said rectangular rim of said mask frame; and said connecting arm having a second plane substantially parallel to said first plane of said shadow mask and spaced apart from said first plane of said shadow mask by a first distance, said first distance being greater than a second distance between said first plane of said shadow mask and a third plane passing a center line of said stud.

- The assembly of claim 1, wherein said connecting arm is perpendicular to both said fixing arm and said suspending arm.
 - 3. The assembly of claim 2, said connecting arm having a length of about 5-40 mm.
 - 4. The assembly of claim 1, said connecting arm having a characteristic for absorbing vibration transmitted from both said mask frame and said panel and offsetting the vibration.
 - 5. The assembly of claim 1, wherein said suspending arm, said connecting arm, and said fixing arm are made in a single body and a flat plate.
 - 6. The assembly of claim 1, said connecting arm being wave-shaped.

3=1

2

2

- 7. The assembly of claim 1, said suspending arm and said fixing arm being flat plates spaced apart from each other by about 5-40 mm.
- 8. The assembly of claim 1, further comprising a bent formed between said suspending arm and said connecting arm and being round.
- 9. The assembly of claim 1, said flange of said mask frame placed on said second plane of said connecting arm.

12

1

2

<u></u>

1

2

2

10 The assembly of claim 1, said skirt of said shadow mask being closer to said third plane of said stud than said second plane of said connecting arm.

11. An assembly in a picture tube having a longitudinal tube axis, comprising: a mask frame being a rectangular rim parallel to said tube axis;

a shadow mask having a skirt fixed on an inside surface of said rectangular rim, having a first plane perpendicular to said tube axis and passing a central surface of said shadow mask;

a stud formed on and extending inwardly from a sidewall of a panel of said picture tube; a bracket having a suspending arm joined by a connecting arm to a fixing arm, being made in a single body, said suspending arm and said fixing arm being flat plates and parallel to each other; said fixing arm fixed on an outside surface of said rectangular rim of said mask frame opposite to said shadow mask while said suspending arm coupled to said stud; and

said connecting arm having a second plane substantially parallel to said first plane and spaced apart from said first plane by a first distance greater than a second distance between said first plane of said shadow mask and a third plane passing a center line of said stud.

- 12. The assembly of claim 11, said suspending arm and said fixing arm being parallel to said tube axis and perpendicular to said connecting arm.
 - 13. The assembly of claim 11, said connecting arm being U shaped.

2

2

2

3

- 16. The assembly of claim 11, said connecting arm and said fixing arm being right-angled to each other.
- 17. The assembly of claim 11, said bracket having a bent formed between connecting arm and any one of said suspending arm and said fixing portion.
 - 18. The assembly of claim 11, said connecting arm having a length of about 5-40 mm.
- 19. The assembly of claim 11, said suspending arm and said fixing arm being spaced apart from each other by about 5-40 mm.
- 20. The assembly of claim 11, said bracket having an opening formed between free ends of said suspending arm and said fixing arm, said opening opposite to said connecting arm, said stud disposed between said opening and said connecting arm.